

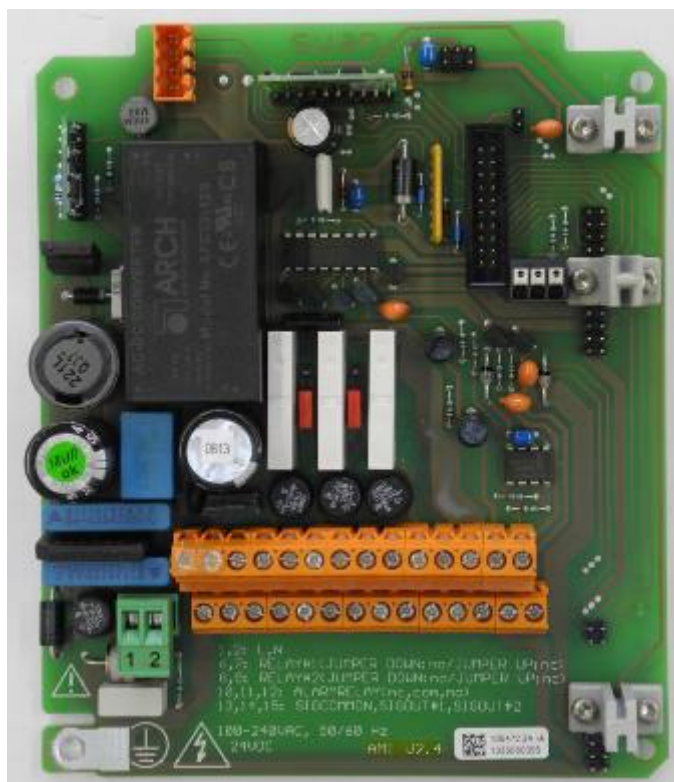
Technical Bulletin TB01/2016

## AMI V2.5 Options

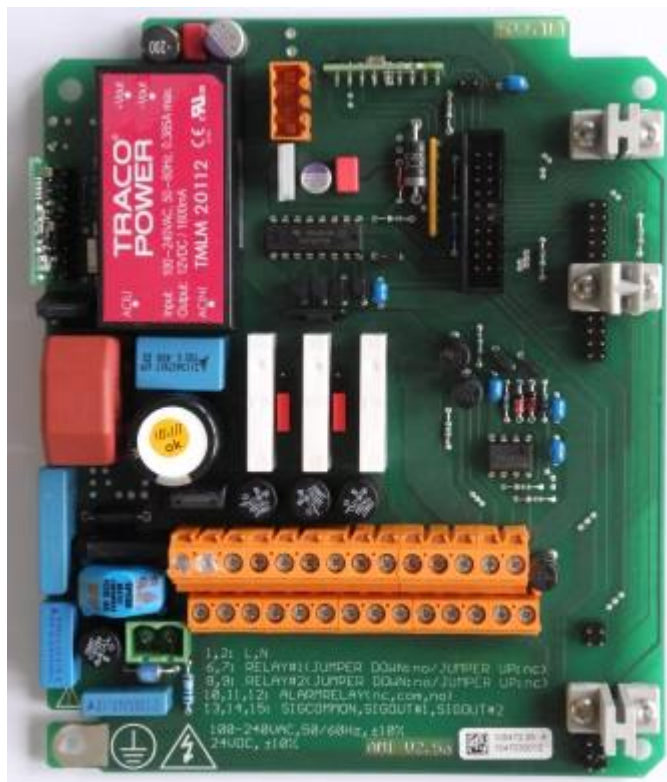
Listed below are current options for communication interface use.

- Profibus / Modbus
- 3<sup>rd</sup> Signal Output
- USB
- Hart Communication
- Hyperterminal Interface (RS 232 Communication)

Compatibility issues between the recently released V 2.5 motherboard and earlier V2.4 and lower versions mean the following must be observed to avoid the possibility of damage to motherboards and/or all the other electronic boards on AMI instruments.



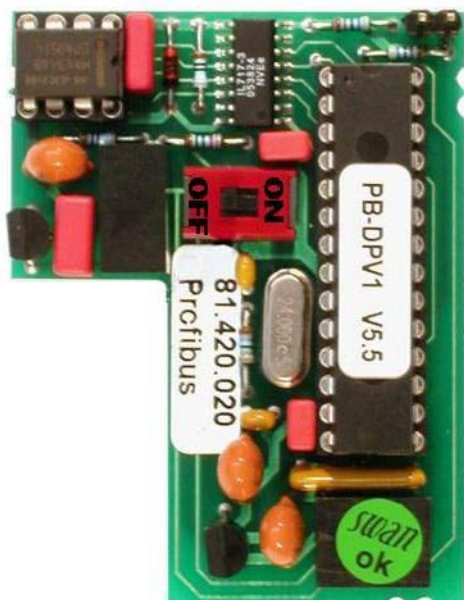
Motherboard V2.4: P/N E-108785.10



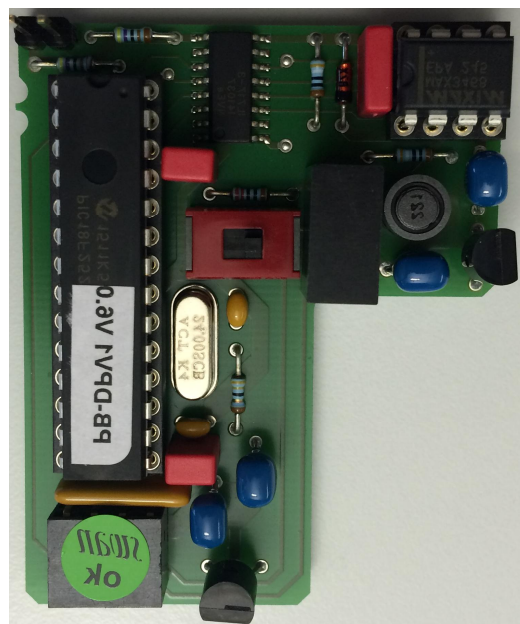
Motherboard V2.5: P/N E-109293.10

Not all AMI analyzers are going to be upgraded with motherboard V2.5 simultaneously. On our website [www.swan.ch](http://www.swan.ch) we're going to publish a table with upgraded models and scheduled upgrade step by step.

## **Profibus / Modbus Communication**



Print AMICOM V1.0



Print AMICOM V1.1

Part Number: A-81.420.020

→ Previously included Print AMICOM V 1.0 with M12x1 socket and wiring.

→ Now, without any change of part number, includes Print AMICOM V 1.1 with M12x1 socket and wiring.

Print AMICOM V1.0 can be installed on AMI motherboard V2.4 or lower only.

Print AMICOM V1.1 can be installed on all AMI motherboards since V2.0.

N.B.(1): If a motherboard V2.4 or lower equipped with Profibus/Modbus option is broken is mandatory:

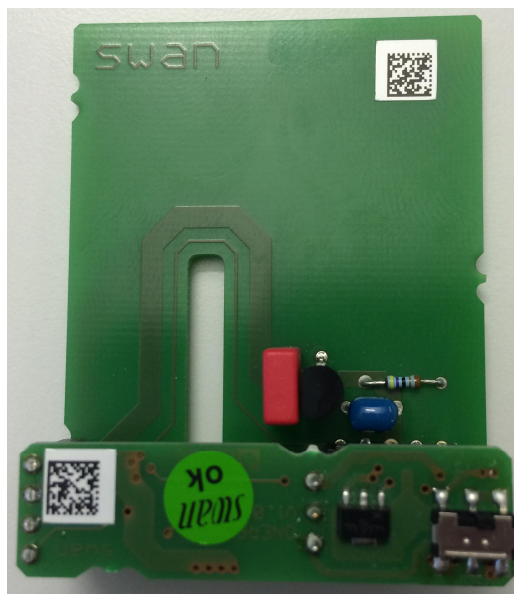
1. To replace it with motherboard V2.5.
2. To replace print AMICOM V1.0 with AMICOM V1.1 (Order new Profibus/Modbus Option).
3. Upgrade firmware to V 6.00 or higher.

N.B.(2): If just AMICOM V1.0 (Profibus/Modbus option) is broken is mandatory to replace print AMICOM V1.0 with AMICOM V1.1 just ordering new Profibus/Modbus Option

### 3<sup>rd</sup> Signal Output (0/4-20mA)



Print FAMREC



Print 3rdREC

P/N A-81.420.050 Includes 3rdREC board and must be installed only on motherboard V2.5 (together with firmware V 6.00 or higher).

P/N A-81.410.020 Includes FAMREC board and can be installed on FAM and AMI transmitter with motherboard V2.4 or lower.

Therefore A-81.410.020 will be suspended and is substituted by E-105062.10

N.B.(1): In the case of a defective 3<sup>rd</sup> Signal Output card:

- If mainboard 2.4 or lower: use Famrec, order P/N: E-105062.10 instead of old P/N A-81.410.020
- If mainboard 2.5 or higher: use 3<sup>rd</sup> Rec, order P/N: A-81.420.050.

N.B.(2): If a defective motherboard V2.4 or lower is equipped with 3<sup>rd</sup> signal output option it is mandatory to:

1. Replace it with motherboard V2.5
2. Replace print FAMREC with 3rdREC (Order a new 3rd signal output option P/N A-81.420.050)
3. Upgrade firmware to V 6.00 or higher



**DANGER: If 3rdREC board is installed on V2.4 motherboard both boards will be severely damaged.**



## USB Interface

P/N A-81.420.040 old USB interface (print AMICOM USB) is phased out.

P/N A-81.420.042 (print AMIUSB) is the only USB interface available right now.



Print AMICOM USB (old)



Print AMIUSB (new)

New USB interface will work for both functions (data logging and firmware upload) on all AMI transmitters with motherboard higher than V2.0 and firmware higher than V5.30.

## **DAMAGE HAZARD!!!**



**IF OLD AMICOM USB PRINT IS CONNECTED TO NEW MOTHERBOARD V2.5 ALL ELECTRONIC PRINTS ON THE INSTRUMENT (MAINBOARD AND PERIPHERALS) WILL BE DAMAGED BEYOND REPAIR**



Therefore, with immediate effect, all old USB interfaces P/N A-81.420.040 not installed on instruments **MUST** be sent back to SWAN with attached a dedicated RMF module. All the parts sent back will be replaced with a new USB interface P/N A-81.420.042 free of charge.

*To profit of replacement for free, old USB options must be back within 10<sup>th</sup> September 2016.*

## **HART Communication**

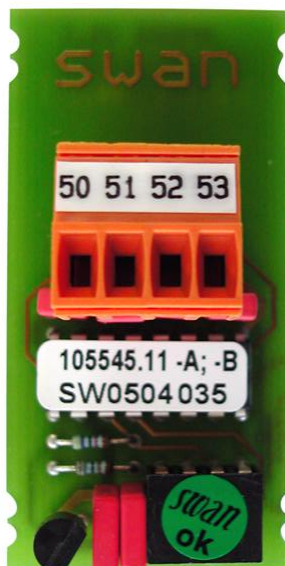
Hart communication was not yet available on any version of currently installed AMI transmitters.



Print HARTREC

Therefore, P/N A-81.420.060 including HARTREC print, can be installed only on motherboard V2.5 or higher and is supported only by firmware V 6.10 or higher.

## ***HyperTerminal Interface (RS 232 Communication):***



P/N A-81.420.010: HyperTerminal Interface (RS-232 for Logger download to PC) will be discontinued without substitute. Access to the Logger on the AMI transmitter can be achieved using USB-Option.

USB option is not supported by firmware lower than 4.3, including basic firmware of bulk Minicon print. Therefore for service and support engineers the print will remain available with limited availability for a few years under P/N E-105679.10

P/N E-105679.10 will also include an extender that allow to use HyperTerminal interface on motherboard V 2.5.

## ***Table summarizing for prints and compatibilities.***

| <u>Motherboard</u> | <u>Board P/N</u> | <u>PB/MB Option</u> | <u>3<sup>rd</sup> Signal Output</u> | <u>USB</u>   | <u>Hart</u>   | <u>Hyperterminal (RS 232)</u> |
|--------------------|------------------|---------------------|-------------------------------------|--------------|---------------|-------------------------------|
| V 2.4 (or lower)   | E-108785.10      | A-81.420.020        | E-105062.10                         | A-81.420.042 | Not Available | E-105679.10                   |
| V 2.5              | E-109293.10      |                     | A-81.420.050                        |              | A-81.420.060  |                               |